

Table F-1-5 Alluvial Groundwater Radiochemical Data

Parameter	Units	B/W-13 12/12/2005 Dissolved	B/W-13 02/27/2006 Dissolved	B/W-13 06/12/2006 Dissolved	B/W-13 09/21/2006 Dissolved	B/W-13 09/21/2006 Dissolved	B/W-13 12/07/2006 Dissolved
Alpha, Gross	pCi/L	5.3	2.8	2.4	1.92 J		3.6 UJ
Beta, Gross	pCi/L	7.4	<4.1 UJ	4.8	4.55		3.4 J
Radium-226	pCi/L	0.2	<0.2	<0.2	<0.259		
Radium-228	pCi/L	<1	1.4	1.9	<0.503		<0.6
Thorium-228	pCi/L				<0.123		<0.222
Thorium-230	pCi/L	<0.2	0.2	<0.2	<0.12		<0.155
Thorium-232	pCi/L	<0.1	<0.1	<0.1	<0.12		<0.155
Thorium-232	ug/L	<1	<1	<1			
Total Alpha	pCi/L						<0.315
Uranium	ug/L	0.005	4.2	3.9	5.38	5.6	5.04
Uranium	pCi/L	3.4	2.8	2.6	5.29		5.18
Uranium-234	pCi/L	2.9	<2 UJ	2.9	3.41		3.41
Uranium-234	ug/L				546		0.548
Uranium-235	pCi/L				<0.0997		0.093 J
Uranium-235	ug/L				<0.0461		0.043
Uranium-238	pCi/L	1.8	<0.9 UJ	<0.2	1.8		1.68
Uranium-238	ug/L				5.34		5

Table F-1-5 Alluvial Groundwater Radiochemical Data – Continued

Parameter	Units	B/W-13 02/27/2007	B/W-13 02/27/2007 Dissolved	B/W-13 05/15/2007	B/W-13 05/15/2007 Dissolved	B/W-13 08/09/2007	B/W-14 12/13/2005	B/W-14 12/13/2005 Dissolved
Alpha, Gross	pCi/L	3.56		3.09		5.72	8.89	<1
Beta, Gross	pCi/L	6.13		5.36		6.26	3.81 J	<2
Radium-226	pCi/L							<0.2
Radium-228	pCi/L	<0.704		0.469 J		<0.464	<0.687 UJ	<1
Thorium-228	pCi/L	<0.101		<0.208		<0.153	<0.191	
Thorium-230	pCi/L	<0.0748		<0.14		<0.107	<0.151	<0.2
Thorium-232	pCi/L	<0.0985		<0.217		<0.107	<0.151	<0.1
Thorium-232	ug/L							<1
Total Alpha	pCi/L	<0.215		<0.287		<0.257	0.309 J	
Uranium	ug/L	4.25	5.1	4.23	5.4		0.581	<0.3
Uranium	pCi/L	3.96		4.51			0.405	<0.2
Uranium-234	pCi/L	0.404		3.03		4.32	0.212	<0.2
Uranium-234	ug/L	0.000404		0.000487			33.9	
Uranium-235	pCi/L	<0.0271		0.073 J		0.074 J	<0.0642	
Uranium-235	ug/L	<0.0271		0.0338 J			<0.0297	
Uranium-238	pCi/L	4.24		1.41		2.33	0.196	<0.2
Uranium-238	ug/L	4.24		4.2			0.583	

Table F-1-5 Alluvial Groundwater Radiochemical Data – Continued

Table T-1 C Hanford Groundwater Radiochemical Data - Continued							
Parameter	Units	B/W-14 02/28/2006 Dissolved	B/W-14 06/12/2006 Dissolved	B/W-14 09/21/2006 Dissolved	B/W-14 12/05/2006 Dissolved	B/W-14 12/05/2006 Dissolved	B/W-14 02/26/2007
Alpha, Gross	pCi/L	20.3 J	15.3		9.28 UJ		10.5
Beta, Gross	pCi/L	<11 UJ	4.3		<3.87		4
Radium-226	pCi/L	0.6	<0.2				
Radium-228	pCi/L	<1	<1		<0.536		<0.483
Thorium-228	pCi/L				<0.116		<0.24
Thorium-230	pCi/L	<0.6	<0.2		<0.115		<0.153
Thorium-232	pCi/L	<0.1	<0.2		<0.115		<0.153
Thorium-232	ug/L	<1	<1				
Total Alpha	pCi/L				<0.23		0.334 J
Uranium	ug/L	<0.3	<0.3	<1.5	0.261 J	0.35 J	0.456
Uranium	pCi/L	<0.2	<0.2		0.273 J		0.295
Uranium-234	pCi/L	<0.2	<0.2		<0.18 UJ		0.0227
Uranium-234	ug/L				<0.0000000289 UJ		0.0000227
Uranium-235	pCi/L				<0.0456		<0.0209
Uranium-235	ug/L				<0.0211		<0.0209
Uranium-238	pCi/L	<3 UJ	<0.2		0.0868 J		0.456
Uranium-238	ug/L				0.258 J		0.456

Table F-1-5 Alluvial Groundwater Radiochemical Data – Continued

Table F-1-5 Alluvial Groundwater Radiochemical Data – Continued

Parameter	Units	B/W-15 12/04/2006	B/W-15 12/04/2006 Dissolved	B/W-15 02/26/2007	B/W-15 02/26/2007 Dissolved	B/W-15 05/15/2007	B/W-15 05/15/2007 Dissolved	B/W-15 08/09/2007	B/W-15 08/09/2007 Dissolved
Alpha, Gross	pCi/L	3.66 UJ		2.2 J		3.15		6.2	
Beta, Gross	pCi/L	<3.99		4.95		4.02		7.73	
Radium-226	pCi/L								
Radium-228	pCi/L	<0.611		<0.476		<0.536		<0.458	
Thorium-228	pCi/L	<0.15		<0.112		<0.101		<0.13	
Thorium-230	pCi/L	<0.147		<0.11		<0.0994		<0.104	
Thorium-232	pCi/L	<0.147		<0.11		<0.122		<0.104	
Thorium-232	ug/L								
Total Alpha	pCi/L	<0.243		<0.288		<0.279		<0.308	
Uranium	ug/L	5.99 J	6.5	4.08	4.3		4.5		12
Uranium	pCi/L	4.58 J		3.25					
Uranium-234	pCi/L	2.5 J		0.294		1.77		4.81	
Uranium-234	ug/L	0.402 J		0.000294		0.00029			
Uranium-235	pCi/L	0.08 J		0.0261 J		0.0651 J		0.116	
Uranium-235	ug/L	0.037 J		0.0261 J		0.0301 J			
Uranium-238	pCi/L	2 J		4.05		1.46		3.62	
Uranium-238	ug/L	5.95 J		4.05		4.35			